

=====

Sequence Listing could not be accepted due to errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2008; month=10; day=22; hr=14; min=51; sec=18; ms=820;]

=====

Reviewer Comments:

<400> 19

taggctggca atttaactct gagacgtctt tcttgtatag agaataaaac atacgcgtgt	60
aaaagaaaac gcgtgaatcg aatgatgagt gttaacgttc gatcgagatg ccaccaaadc	120
ttttcattaa aatgaattgt ggaggacata ccacttttaa cgaggtcatt tccactgggt	180
gacatgtgga ctctactttg ggtggcatgt tcatatcttt ccacatcacc atgtaaacgt	240
gaaaacaccc accacactca cttacatctc aaacacatgt cttcattatc gtacgtagct	300
ccaaaaaaaa aaatgaaaac taggtttagt gattctatct cgcaatgtat aatatacaac	360
ttgtaaaaat aaaatatctg aataagcatt ataaataaac ccaaagaggt gttagattta	420
tatacttaat tgtagctact aaatagagaa tcagagagaa tagttttata tcttgcacga	480
aactgcatgc tttttgagac atg gca atc ttc cga agt aca cta gtt tta ctg	533
Met Ala Ile Phe Arg Ser Thr Leu Val Leu Leu	
1 5 10	
ctg atc ctc ttc tgc ctc acc act ttt gag gttcataact tttgtcttta	583
Leu Ile Leu Phe Cys Leu Thr Thr Phe Glu	
15 20	
cttctccatg aatcatttgc ttcgtcttat ccttaattca tatgtgtttg atcaatgata	643
ataattcatc attctcttca g ctt cat gtt cat gct gct gaa gat tca caa	694

Leu His Val His Ala Ala Glu Asp Ser Gln

25

30

gtc ggt gaa ggc gta gtg aaa att g gatatgtaacg ctaacatata

739

Val Gly Glu Gly Val Val Lys Ile

35

tgtaaagtgt tataatctctg tttatatatg attttttaaac ggttaaaaac tagtcatatg

799

tgtataaata tatcatgtga ag at tgc ggt ggg aga tgc aaa ggt aga tgc

850

Asp Cys Gly Gly Arg Cys Lys Gly Arg Cys

45

Please insert a "40" under "Asp" above. Same type of error in Sequence
25, position 1452.

Application No: 10521518

Version No: 2.0

Input Set:

Output Set:

Started: 2008-09-18 16:07:27.372

Finished: 2008-09-18 16:07:33.394

Elapsed: 0 hr(s) 0 min(s) 6 sec(s) 22 ms

Total Warnings: 0

Total Errors: 10

No. of SeqIDs Defined: 110

Actual SeqID Count: 110

Error code	Error Description
E 320	Wrong Nucleic Acid Designator, aa in SEQID (5)
E 320	Wrong Nucleic Acid Designator, at in SEQID (9)
E 320	Wrong Nucleic Acid Designator, aa in SEQID (11)
E 320	Wrong Nucleic Acid Designator, aa in SEQID (13)
E 320	Wrong Nucleic Acid Designator, ag in SEQID (17)
E 323	Invalid/missing amino acid numbering SEQID (19) POS (800)
E 320	Wrong Nucleic Acid Designator, at in SEQID (19)
E 323	Invalid/missing amino acid numbering SEQID (25) POS (1452)
E 320	Wrong Nucleic Acid Designator, at in SEQID (25)
E 320	Wrong Nucleic Acid Designator, ca in SEQID (27)

SEQUENCE LISTING

<110> Expressive Research B.V.

<120> Modulating developmental pathways in plants

<130> 294-208 PCT/US

<140> 10521518

<141> 2006-02-28

<150> PCT/NL03/00524

<151> 2003-07-17

<150> EP 02077908.8

<151> 2002-07-17

<160> 110

<170> PatentIn version 3.2

<210> 1

<211> 227

<212> PRT

<213> Arabidopsis thaliana

<400> 1

Met Ala Ala Glu Gln Pro Leu Asn Gly Ala Phe Tyr Gly Pro Ser Val
1 5 10 15

Pro Pro Pro Ala Pro Lys Gly Tyr Tyr Arg Arg Gly His Gly Arg Gly
20 25 30

Cys Gly Cys Cys Leu Leu Ser Leu Phe Val Lys Val Ile Ile Ser Leu
35 40 45

Ile Val Ile Leu Gly Val Ala Ala Leu Ile Phe Trp Leu Ile Val Arg
50 55 60

Pro Arg Ala Ile Lys Phe His Val Thr Asp Ala Ser Leu Thr Arg Phe
65 70 75 80

Asp His Thr Ser Pro Asp Asn Ile Leu Arg Tyr Asn Leu Ala Leu Thr
85 90 95

Val Pro Val Arg Asn Pro Asn Lys Arg Ile Gly Leu Tyr Tyr Asp Arg
100 105 110

Ile Glu Ala His Ala Tyr Tyr Glu Gly Lys Arg Phe Ser Thr Ile Thr
115 120 125

Leu Thr Pro Phe Tyr Gln Gly His Lys Asn Thr Thr Val Leu Thr Pro
130 135 140

Thr Phe Gln Gly Gln Asn Leu Val Ile Phe Asn Ala Gly Gln Ser Arg
145 150 155 160

Thr Leu Asn Ala Glu Arg Ile Ser Gly Val Tyr Asn Ile Glu Ile Lys
165 170 175

Phe Arg Leu Arg Val Arg Phe Lys Leu Gly Asp Leu Lys Phe Arg Arg
180 185 190

Ile Lys Pro Lys Val Asp Cys Asp Asp Leu Arg Leu Pro Leu Ser Thr
195 200 205

Ser Asn Gly Thr Thr Thr Thr Ser Thr Val Phe Pro Ile Lys Cys Asp
210 215 220

Phe Asp Phe
225

<210> 2
<211> 416
<212> PRT
<213> Arabidopsis thaliana

<400> 2

Met Val Arg Ser Asn Asp Val Lys Phe Gln Val Tyr Asp Ala Glu Leu
1 5 10 15

Thr His Phe Asp Leu Glu Ser Asn Asn Asn Leu Gln Tyr Ser Leu Ser
20 25 30

Leu Asn Leu Ser Ile Arg Asn Ser Lys Ser Ser Ile Gly Ile His Tyr
35 40 45

Asp Arg Phe Glu Ala Thr Val Tyr Tyr Met Asn Gln Arg Leu Gly Ala
50 55 60

Val Pro Met Pro Leu Phe Tyr Leu Gly Ser Lys Asn Thr Met Leu Leu
65 70 75 80

Arg Ala Leu Phe Glu Gly Gln Thr Leu Val Leu Leu Lys Gly Asn Glu
85 90 95

Arg Lys Lys Phe Glu Asp Asp Gln Lys Thr Gly Val Tyr Arg Ile Asp
100 105 110

Val Lys Leu Ser Ile Asn Phe Arg Val Met Val Leu His Leu Val Thr
115 120 125

Trp Pro Met Lys Pro Val Val Arg Cys His Leu Lys Ile Pro Leu Ala
130 135 140

Leu Gly Ser Ser Asn Ser Thr Gly Gly His Lys Lys Met Leu Leu Ile
145 150 155 160

Gly Gln Leu Val Lys Asp Thr Ser Ala Asn Leu Arg Glu Ala Ser Glu
165 170 175

Thr Asp His Arg Arg Asp Val Ala Gln Ser Lys Lys Ile Ala Asp Ala
180 185 190

Lys Leu Ala Lys Asp Phe Glu Ala Ala Leu Lys Glu Phe Gln Lys Ala
195 200 205

Gln His Ile Thr Val Glu Arg Glu Thr Ser Tyr Ile Pro Phe Asp Pro
210 215 220

Lys Gly Ser Phe Ser Ser Ser Glu Val Asp Ile Gly Tyr Asp Arg Ser
225 230 235 240

Gln Glu Gln Arg Val Leu Met Glu Ser Arg Arg Gln Glu Ile Val Leu
245 250 255

Leu Asp Asn Glu Ile Ser Leu Asn Glu Ala Arg Ile Glu Ala Arg Glu
260 265 270

Gln Gly Ile Gln Glu Val Lys His Gln Ile Ser Glu Val Met Glu Met
275 280 285

Phe Lys Asp Leu Ala Val Met Val Asp His Gln Gly Thr Ile Asp Asp
290 295 300

Ile Asp Glu Lys Ile Asp Asn Leu Arg Ser Ala Ala Ala Gln Gly Lys
305 310 315 320

Ser His Leu Val Lys Ala Ser Asn Thr Gln Gly Ser Asn Ser Ser Leu
325 330 335

Leu Phe Ser Cys Ser Leu Leu Leu Phe Phe Phe Leu Ser Gly Asp Leu
340 345 350

Cys Arg Cys Val Cys Val Gly Ser Glu Asn Pro Arg Leu Asn Pro Thr
355 360 365

Arg Arg Lys Ala Trp Cys Glu Glu Glu Asp Glu Glu Gln Arg Lys Lys
370 375 380

Gln Gln Lys Lys Lys Thr Met Ser Glu Lys Arg Arg Arg Glu Glu Lys
385 390 395 400

Lys Val Asn Lys Pro Asn Gly Phe Val Phe Cys Val Leu Gly His Lys
405 410 415

<210> 3
<211> 1634
<212> DNA
<213> Arabidopsis thaliana

<220>
<221> CDS
<222> (501)..(563)
<223> signal sequence (exon 1)

<220>
<221> CDS
<222> (655)..(708)
<223> propeptide (exon 2)

<220>
<221> CDS
<222> (797)..(856)
<223> propeptide (exon 3)

<220>
<221> CDS
<222> (955)..(1131)
<223> conserved cysteine motif (exon 4)

<400> 3
attaaacgcc aaacactaca tctgtgtttt cgaacaatat tgcgtctgcg tttccttcat

ctatctctct cagtgtcaca atgtctgaac taagagacag ctgtaaacta tcattaagac	120
ataaactacc aaagtatcaa gctaattgtaa aaattactct catttccacg taacaaattg	180
agtttagctta agatattagt gaaactaggt ttgaattttc ttcttcttct tccatgcatc	240
ctccgaaaaa agggaaccaa tcaaaactgt ttgcatatca aactccaaca ctttacagca	300
aatgcaatct ataatctgtg atttatccaa taaaaacctg tgatttatgt ttggctccag	360
cgatgaaagt ctatgcatgt gatctctatc caacatgagt aattgttcag aaaataaaaa	420
gtagctgaaa tgtatctata taaagaatca tccacaagta ctattttcac acactacttc	480
aaaatcacta ctcaagaaat atg aag aag atg aat gtg gtg gct ttt gtt acg	533
Met Lys Lys Met Asn Val Val Ala Phe Val Thr	
1 5 10	
ctg atc atc tct ttt ctt ctg ctt tct cag gttaaactgtt aaaaccattt	583
Leu Ile Ile Ser Phe Leu Leu Leu Ser Gln	
15 20	
tcaagactac cttttctcta tttcagacaa accaaagtaa aacaatgaaa aatctctctg	643
gtctttcata g gta ctt gca gag ttg tca tca tcc agc aac aat gaa act	693
Val Leu Ala Glu Leu Ser Ser Ser Ser Asn Asn Glu Thr	
25 30	
tcc tct gtt tct cag gtaagagtga tacaaaaaca tactaaacaa actttcaaga	748
Ser Ser Val Ser Gln	
35	
gagtaatata taaggaaatg ttggcttctt ttttttggtg ctaatcag acg aat gac	805
Thr Asn Asp	
40	
gag aac caa act gcg gcg ttt aag aga aca tac cac cat cgt cca aga	853
Glu Asn Gln Thr Ala Ala Phe Lys Arg Thr Tyr His His Arg Pro Arg	
45 50 55	
atc agttagteta ctctttcaac actctaattc ctttggttcta agtatTTTTT	906
Ile	
ttgcccccca caaccttttt tttattaaat gagccaattt ttatagat tgt ggg cat	963
Cys Gly His	
60	
gca tgc gca agg aga tgc agt aag aca tcg agg aag aaa gtt tgt cac	1011
Ala Cys Ala Arg Arg Cys Ser Lys Thr Ser Arg Lys Lys Val Cys His	
65 70 75	
aga gcc tgt gga agt tgt tgt gcc aag tgt cag tgt gtg ccg ccg gga	1059
Arg Ala Cys Gly Ser Cys Cys Ala Lys Cys Gln Cys Val Pro Pro Gly	
80 85 90	

acc tcc ggc aac aca gca tca tgt cct tgc tac gcc agt atc cgt aca 1107
Thr Ser Gly Asn Thr Ala Ser Cys Pro Cys Tyr Ala Ser Ile Arg Thr
95 100 105 110

cat ggc aat aaa ctc aaa tgt cct taaaagactt ctcatttctc aactatagtc 1161
His Gly Asn Lys Leu Lys Cys Pro
115

tcatcttctg attatgtttc ttcttttgtt atgttgcatg tgtgatgtgt gagcttatta 1221

ttatgttgat tgttgacata attcaactat ataatttgta tcgattccga ataataagat 1281

gagtgatttt attggctatt aagttttttt tttttttttt tgggcacaat ggctattaag 1341

ttttaaacat ctgattttat tggttacaaa aaacaacaaa gtttcatttt catattaaca 1401

caaaatctcc atacatatta ccaaaccaaa aaaatacaca agggggagag agaccaacgg 1461

ttcttggttc agagtttgca tcttgtttga gccgtcaccg tttcttagac ttaacagcca 1521

caacaccttt ataaagcttc acgcgatcct tcaacgcac tcgccgaggg cgagccacct 1581

tattgttttg atcaacaac aaaacttctt caaacgcatt caatgccaaa ggc 1634

<210> 4
<211> 118
<212> PRT
<213> Arabidopsis thaliana

<400> 4

Met Lys Lys Met Asn Val Val Ala Phe Val Thr Leu Ile Ile Ser Phe
1 5 10 15

Leu Leu Leu Ser Gln Val Leu Ala Glu Leu Ser Ser Ser Ser Asn Asn
20 25 30

Glu Thr Ser Ser Val Ser Gln Thr Asn Asp Glu Asn Gln Thr Ala Ala
35 40 45

Phe Lys Arg Thr Tyr His His Arg Pro Arg Ile Cys Gly His Ala Cys
50 55 60

Ala Arg Arg Cys Ser Lys Thr Ser Arg Lys Lys Val Cys His Arg Ala
65 70 75 80

Cys Gly Ser Cys Cys Ala Lys Cys Gln Cys Val Pro Pro Gly Thr Ser
85 90 95

Gly Asn Thr Ala Ser Cys Pro Cys Tyr Ala Ser Ile Arg Thr His Gly

Asn Lys Leu Lys Cys Pro
115

<210> 5
<211> 1453
<212> DNA
<213> *Arabidopsis thaliana*

<220>
<221> CDS
<222> (501)..(533)
<223> signal peptide (exon 1)

<220>
<221> CDS
<222> (664)..(691)
<223> propeptide (exon 2)

<220>
<221> CDS
<222> (772)..(950)
<223> conserved cysteine motif (exon 3)

<400> 5
gaaaaaaaga agaaaagata atgggtccgta ttaatatagt tgaaaacttg aaactacttt 60

ttagttttgta tataatacag tagactaggg atccagttga gtttctttct ttattttgag 120

tttgtgttta tgtttgattt tacgttttta tatgtaaata agatatttta cgaattatgg 180

ttttatttgg gtagaagttg tagaatgact taaacaatca agtggcagaa tgagatatat 240

aaagtaatat aatatatgta ccgttattaa cttattgtac atgtgaatga ggaagcttac 300

acacacacac cttctataaa tagctgacaa aactggttgt tacacacaac acattcataa 360

atctctcaaa gtaagaacta agagctttac tacagtccta ctctctacac atcttctctc 420

tctctcaaga gctagtcatt gccaaactca taacttcttt tctcttactc acaattttat 480

tcactttcgt ttgtctcact atg tca aaa gaa gct gag tac cat cca gaa agt 533
Met Ser Lys Glu Ala Glu Tyr His Pro Glu Ser
1 5 10

gtaagttttt attttttggt aaaatagaaa gtgtaagttt tataattcat tcaattgttt 593

ttgcctttcc ctttctattt attgctataa atctaatacc cgcgttaaaa tttgttttga 653

aattaaacag tat gga cca gga agt ctg aaa tca tac c gtaagtaaaa 701
Tyr Gly Pro Gly Ser Leu Lys Ser Tyr
15 20

acttcttctt cttttatgaa tcttgtttct tattatatat caaataaaaa ctcgattatc 761

atgattgcag aa tgt gga gga caa tgc aca agg aga tgt agc aac aca 809
Gln Cys Gly Gly Gln Cys Thr Arg Arg Cys Ser Asn Thr
25 30

aag tat cat aag cca tgc atg ttc ttc tgc caa aag tgt tgt gct aaa 857
Lys Tyr His Lys Pro Cys Met Phe Phe Cys Gln Lys Cys Cys Ala Lys
35 40 45

tgc ctt tgt gtc cct cca ggc acg tac ggc aac aaa caa gtg tgt cct 905
Cys Leu Cys Val Pro Pro Gly Thr Tyr Gly Asn Lys Gln Val Cys Pro
50 55 60 65

tgt tac aac aac tgg aag act caa caa ggt gga cca aaa tgt cca 950
Cys Tyr Asn Asn Trp Lys Thr Gln Gln Gly Gly Pro Lys Cys Pro
70 75 80

taaacaaaaa cattgagaga gaaaccccaa tctgtttcct attttattta attatttcca 1010

gtatgctttt gttgtcgtga tgggttaaatt atagtgtttt tgcagggtatc atttatcatc 1070

gataaacaat atcatataaa atcttctatg tttctttcac gttttgtttc ttttgttgta 1130

gtcaatacac gaaatgtgta tggaccttct aattaggaat atataaaaatt ttatttatta 1190

attagataat ctttcgtata gttaaaattc caaggattac ttttgattcg tttgggacaa 1250

tctattttat attttacttt ctaagtttgt ataactatat cttaaaagtg ttagacagag 1310

tcctaatagat tttagtataa ttgttactat ttagttacgc ttcgaaaatt tggaactttt 1370

ccaaagtggg ctatatcaat ttgattcact aatctgcgct tccttctagt tttttacaat 1430

tatggagatt tttcgacgat gat 1453

<210> 6

<211> 80

<212> PRT

<213> Arabidopsis thaliana

<400> 6

Met Ser Lys Glu Ala Glu Tyr His Pro Glu Ser Tyr Gly Pro Gly Ser
1 5 10 15

Leu Lys Ser Tyr Gln Cys Gly Gly Gln Cys Thr Arg Arg Cys Ser Asn
20 25 30

Thr Lys Tyr His Lys Pro Cys Met Phe Phe Cys Gln Lys Cys Cys Ala
35 40 45

Lys Cys Leu Cys Val Pro Pro Gly Thr Tyr Gly Asn Lys Gln Val Cys

Pro Cys Tyr Asn Asn Trp Lys Thr Gln Gln Gly Gly Pro Lys Cys Pro
 65 70 75 80

<210> 7
 <211> 1472
 <212> DNA
 <213> *Arabidopsis thaliana*

<220>
 <221> CDS
 <222> (501)..(566)
 <223> signal sequence (exon 1)

<220>
 <221> CDS
 <222> (669)..(708)
 <223> propeptide (exon 2)

<220>
 <221> CDS
 <222> (791)..(969)
 <223> conserved cysteine motif (exon 3)

<400> 7
 cacaactttt atacgcacca ccaaccgacc cattttgaaa aagagaaaat aaaccacaaa 60
 aacacacata aataatatgc tgataacaat gtcttaaaaa tctattttacc atttctagta 120
 atcaatatct attgcaaaaa atattttataa gaatacaaat gaaaaatgat aaaatacaaa 180
 tgattttctca attacctaaa aaatataaaa atgtcttact ttatttttcag ccactgttgg 240
 aaagtacttg caatcatatc gtatttttgaa ttataaaact cagaaacaat tattttccct 300
 gaaaagttaa aactttttaat aagatattta taaaataaaa agaatagtct agaccgaaaa 360
 tggggtcggt tgtccatcca aaggagtgct ataaatagaa ccctccaagt tctcattagg 420
 acacaacaac taaaaccaca tttatcatta cagtctgatt tgagctaagt tctctcatca 480
 taaactctcc ttggagaatc atg gct att tca aaa gct ctt atc gct tct ctt 533
 Met Ala Ile Ser Lys Ala Leu Ile Ala Ser Leu
 1 5 10
 ctc ata tct ctt ctt gtt ctc caa ctc gtc cag gctgatgtcg tacgtctttt 586
 Leu Ile Ser Leu Leu Val Leu Gln Leu Val Gln
 15 20
 tcatcacaaa ctaattatac tcaatataat acttatgttt tcaaaaacat atttctcaca 646
 tgttacaaca atattcttgc ag gaa aac tca cag aag aaa aat ggt tac gca 698
 Glu Asn Ser Gln Lys Lys Asn Gly Tyr Ala

aag aag atc g gtaattatat gattttttatt aaacctaacg ttaaatttag	748
Lys Lys Ile	
35	
agtgagatta ataatctgtg tttttctttc ttgtatatat ag at tgt ggg agt	801
Asp Cys Gly Ser	
gcg tgt gta gca cgg tgc agg ctt tcg agg agg ccg agg ctg tgt cac	849
Ala Cys Val Ala Arg Cys Arg Leu Ser Arg Arg Pro Arg Leu Cys His	
40 45 50 55	
aga gcg tgc ggg act tgc tgc tac agg tgc aac tgt gtg cct ccg ggt	897